NEXTO DI VIDEO STORAGE pro+

Portable Storage for Professional Video Cameras

- User Guide
- Version 10/10

NextoDI Co., Ltd.
www.nextodi.com

Dear customer,
Thank you for purchasing this NEXTO VIDEO STORAGE pro+ (NVSPRO+) product. NVSPRO+ product allows videographers to save footages from camcorders to a hard drive, without using a computer. The camcorder can then be used to record new data. NextoDI has optimized performance so that data transfers from memory card to NVSPRO+ more quickly than to other storage devices. Data stored on NVSPRO+ can later be copied to a computer.
NVSPRO+ supports professional video cameras from various manufacturers, and memory formats such as SxS, CardBus Memory Card (including P2/P2E) and Compact Flash (CF) Card.
Please read this manual before using the product. Follow operating instructions carefully to avoid any damage to the product, or any personal injury. This guide assumes that your NVSPRO+ unit contains a properly formatted hard disk and a charged battery. If this is not the case, refer to the User Manual for instructions on formatting a hard disk and charging the battery.

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Important safety notice

- Do not drop, jar, bump, shock, or expose NVSPRO+ to severe vibration during video preview or while data is being transferred.
- Do not use near open flames (candles, stoves, grills, fires,) or sparks (fireworks, welding torches.).
- Backup your data. Under no conditions is NextoDI, Inc. liable for loss of or damage to a computer; or loss of, or damage to, a program, records, or data; or any consequential or incidental damages.

For more inquiries, contact or consult our technical advisory service:
http://www.nextodi.com/en/support/en_qna.php

* NextoDI Co., Ltd. reserves the right to make improvements and/or changes to the product and programs described in this User's Guide at any time without notice.

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1. Product Description

The NEXTO VIDEO STORAGE pro+ (hereinafter NVSPRO+) includes a 2.5”Serial ATA (SATA) hard drive and a Li-Poly battery. The NVSPRO+ provides the following functions:

1. Memory card backup

The NVSPRO+ contains a 2.5”SATA hard drive and a Li-Poly rechargeable battery. The NVSPRO+ can copy the contents of a memory card to the internal hard drive without a PC--even in the field where no electric power source is available.
You can copy SxS cards and CF cards (using a CF card adapter) through the ExpressCard slot on the left side of the device. You can copy Cardbus memory cards (including P2/P2E) through the Cardbus slot on the top of the device.
For IKEGAMI GFPAK, you can copy through the eSATA_host/USB_host combo port on the bottom of the MVSPRO+.
For complete backup information, refer to Chapter 11 of this manual.

2. Video/Photo Preview

The NVSPRO+ can display video footage taken with professional video cameras, such as the XDCAM or P2CAM, on a color TFT LCD. The NVSPRO+ provides a “best effort” preview of the video clip--that is, the resolution and speed may be lower than on a regular device. For details on Video Preview, see chapter 12.

3. Multi-Copy

NVSPRO+ can copy the contents of a memory card to the internal hard drive and an eSATAp/USB external hard drive at the same time, allowing you to make two copies in a single operation using this function.
For details of the Multi-Copy feature, see chapter 14.

4. Sync

The NVSPRO+ can synchronize the contents of a folder with the folder on an eSATAp/USB external hard drive. This allows you to make a secondary copy of the backup folder to an eSATAp/USB external hard drive without using a computer.
For details of the Sync function, see chapter 15.

5. Computer connection

The NVSPRO+ can be connected via USB2.0, IEEE 1394b (FireWire 800) to a corresponding port on a computer, in order to copy data. For details of Computer Connections, see chapter 10.

6. Button operation

All of the functions of the NVSPRO+ are controlled by two buttons, one for power (On/Off) and the other for function control (control key). The power button can also be used as a function key in some instances. For details on Power (On/Off) and control key operation, see chapter 8.

7. Bad Sector Recovery

When a video file stored in the NVSPRO+ cannot be copied or edited on a computer, the problem may be a bad sector on the hard drive. The NVSPRO+ has a sector recovery function which may recover the video file. For details on Sector recovery, see chapter 16.

8. Internal/External rechargeable battery

The NVSPRO+ contains an internal Li-Poly battery that enables the NVSPRO+ to be used without the power adapter. The power adapter is used to charge the internal battery, supplying power to the main unit. The external battery can be used to charge the internal battery. For details on Charging the Internal Battery, see chapter 7.

9. Internal hard drive

The NVSPRO+ offers these functions for the internal hard drive:

[Hard drive format]
[Hard drive capacity check]
[Hard drive self test]

For details see chapter 9 and chapter 17.

10. Firmware upgrade

When NextoDI develops new functionality—or offers support for new video formats--firmware is provided to users through the website’s download page. You can download the new firmware to a memory card or the internal hard drive of the NVSPRO+. You can then upgrade your NVSPRO+ using the firmware update function of the NVSPRO+. For details, see chapter 17.

11. Language selection

The NVSPRO+ supports various languages. You can select a language from the menu of the NVSPRO+. For details, see chapter 17.

12. Buzzer on/off

The NVSPRO+ uses a buzzer to note the results of various operations. A user can turn the buzzer on or off via the menu. For details, see chapter 17.

13. Auto-generation of Index File

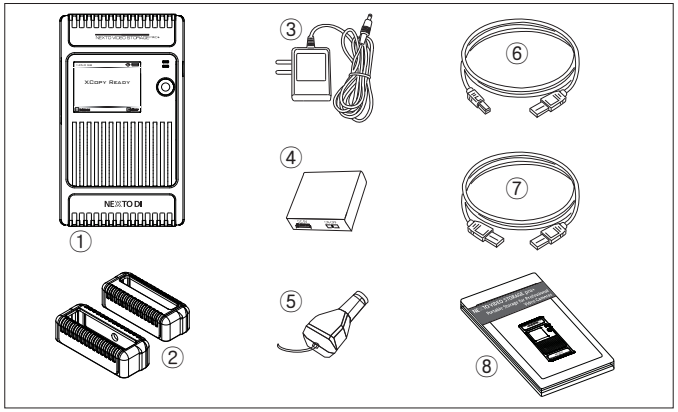
After a memory card has been copied, the NVSPRO+ generates HTML files containing metadata and thumbnails of the video footage. For details, see chapter 20.

14. Burning Blu-ray Disc

Users can copy video files that are stored in the NVSPRO+ to a Blu-ray disc using a USB Blu-ray driver. After copying the footage, the NVSPRO+ will support video preview from the Blu-ray Disc. For details, see chapter 18.

2. Contents of the NEXTO VIDEO STORAGE pro+

1. Main Package



① Main storage unit

② Shock protective rubber jacket

③ AC power adapter (wall plug; 6~25V)

④ AA battery holder for recharging internal Li-Poly battery

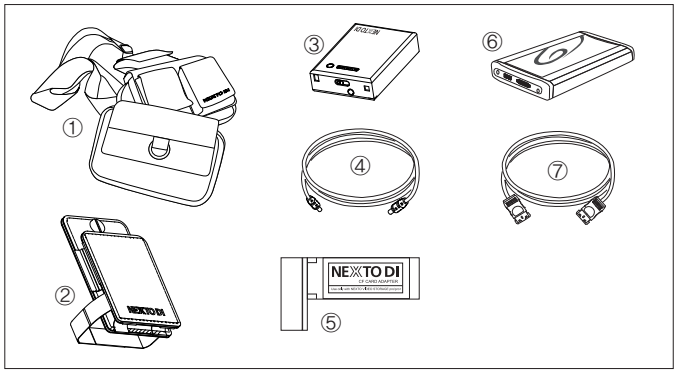
⑤ Car Charger Cable for recharging internal battery

⑥ USB cable for computer connection or connecting USB external hard drive and GFPAK

⑦ IEEE 1394b(FireWire 800) cable for computer connection

⑧ User's Guide

2. Plus 1 Pack



① Carrying bag for storing NVSPRO+ and Accessories.

② Leather case for attaching external eSATAp hard drive to NVSPRO+

③ External battery supplies power for both the NVSPRO+ & eSATAp hard drive. When recharging the internal battery, use the AC adapter that is provided. The internal battery of the NVSPRO+ is not used when the external battery is connected.

④ External battery cable for connecting the external battery to the DC-In slot of the NVSPRO+

⑤ CF card adapter for using CF with NVSPRO+

⑥ eSATAp external hard drive can be connected to a computer using either eSATA or USB

⑦ eSATAp cable deliver both power and eSATA signal

Warning

The output voltage of the external battery and the AC adapter is 12VDC. Use the AC adapter and the external battery only with the NVSPRO+. Connecting the external battery or AC adapter to the eSATAp hard drive or USB drive could cause damage to the hard drive or loss of your data.

3. Symbols Used in This Document

Warning	The flash icon in a triangle is used to alert you to personal injury hazards such as electric shock
Caution	An exclamation mark in a triangle indicates important instructions in this operating manual which must be observed.
Reference	The "hand" icon gives you special tips and notes on the operation.

4. Safety Instructions

Caution

In case of any damage due to failure to observe these operating instructions, the warranty is voided. NextoDI does not assume liability for consequential damages. Nor do we assume liability for damage to property or personal injury caused by improper use or failure to observe the safety instructions. The warranty is void in any such case. The following safety instructions and warnings are not only to protect you, but also to protect the device. Please read the following warnings:

Warning

- Unauthorized conversion and/or modification of the product is forbidden for safety reasons.
- Never open the product. This device is not user serviceable.
- Damaging the Li-Poly rechargeable may result in explosion or fire!
- Maintenance, or repairs may only be carried out by authorized repair center.
- The AC power adapter unit is intended for use in dry conditions to avoid electric shock!

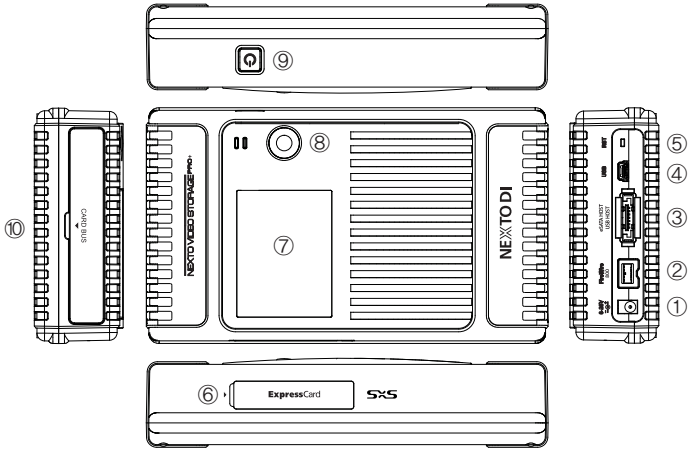
Warning

- The case of the hard disk must not get damp or wet. Protect the device from humidity and water, from sun, excessive heat (>113°F) or cold (<32ºF), dust and dirt.
- When the product is brought from a cold place into a warm room, condensation may form. This could damage the product. Always let the product get to room temperature before use or before connecting the AC power adapter unit. This can take several hours.
- Do not use in tropical climate conditions
- The AC power adapter unit complies with safety class II. As a voltage source only a proper power socket of the public power supply system may be used. Note the input voltage/frequency imprinted on the AC Adapter. It must correspond to the voltage/frequency of the power outlet. The AC power adapter is equipped with an input voltage range of 100 ~ 240V, 50/60Hz. Adapters may be necessary for use in countries other than the US.
- The product is not a toy and should be kept out of reach of children!
- Do not place liquid near the product. Liquid could get inside the housing and cause a fire or electric shock. In case of fire damage or short circuit, de-energize the respective socket (e.g. turn off circuit breaker) and only then pull the AC power adapter unit from the socket. Do not attempt to use the product! Take it to your dealer for repair immediately.
- Never touch the AC power adapter unit when your hands are damp or wet.
- In industrial facilities, safety regulations for electrical equipment and facilities must be observed. If the product is used at schools, training facilities, or do-it-yourself/hobby shops, it should not be handled unless supervised by trained, responsible personnel.
- Do not drop NVSPRO+ device.

Caution

The product must not get damp or wet. This product is not a toy. It contains fragile and swallowable glass parts, small parts, and a rechargeable battery. Any use other than that described above may damage the product. Read these operating instructions thoroughly and carefully. The instructions contain important information for installation, operation, and handling. Take note of all safety instructions.

5. Device Diagram



① DC IN" slot for AC power adapter unit (wall plug; 6~25V).

② Connector " IEEE 1394b (Firewire 800)" to connect to the computer with max 800Mbps speed.

③ Combo slot for “eSATA_Host” and “USB_Host”
- eSATA Host slot to connect eSATAp external hard drive.
- USB Host slot to connect USB external hard drive or IKEGAMI GFPAK or USB Blu-ray driver.

④ "USB” slot for USB2.0 device connection to a computer

⑤ Recessed Reset key, to be pressed with a tooth pick or similar tool; switches off NVSPRO+ in the event of a hardware or software malfunction.

⑥ ExpressCard slot for SxS card and CF card connection. CF card needs CF card adapter which is included in the NVSPRO+ box.

⑦ LCD Display

⑧ Control key. Controls up/down/left/right/select of cursor when power is on.

⑨ Power key. Controls power on/off and selecting command when power is on.

⑩ Cardbus slot for Cardbus Memory card (including P2/P2E) connection.

6. About the Rechargeable Battery

A "Li-Poly" (lithium-polymer) rechargeable battery is integrated into the NVSPRO+. This rechargeable battery does not have the so-called "memory effect"-- the rechargeable battery can be charged whenever you want. Furthermore, it has a higher energy content than conventional NiCd and NiMH rechargeable batteries. Note these important instructions when handling the Li-Poly rechargeable battery.

The rechargeable battery can be recharged 400 times.
If the battery operation time gets shorter, it may be time to replace the battery. Consult your authorized NEXTODI dealer to replace the internal battery.

Caution

- Never damage the rechargeable battery--do not remove it from the NVSPRO+. Consult the chapter on "Battery Disposal". Damaging the wrapping of the rechargeable battery might cause an explosion or fire.
- Never short circuit the contacts of the rechargeable battery. Never touch the connections or electrical components inside the NVSPRO+ with metal objects.
- Charge the rechargeable battery regularly, even if you do not use the product. The NVSPRO+ needs some "current" (a small quantity) at all times. Due to the Li-Poly rechargeable battery technology, it is not necessary to discharge the battery before recharging. Recharge the battery completely, about once a month. The device will be ready for use at any time.

7. Charging the Rechargeable Battery

1. Internal battery

The battery can be charged using the AC power adapter unit delivered with this product.

① Turn off NVSPRO+.
② Connect the charger's wall plug to the NVS's "DC IN" slot.
③ Plug the AC power adapter unit into a wall socket.
④ The LED above the Control key shows red during the charging.
⑤ When the battery is charged, the red LED turns off.
⑥ If there is an error when charging, the LED blinks. If this happens, unplug the AC adapter unit and plug it in again.

Users can charge the NVSPRO+ via the car charger, the USB/IEEE 1394b (FireWire 800) cable, or the AA battery holder.

With a completely empty rechargeable battery, the charging procedure lasts approximately 4 hours using the AC power adapter, the car charger, or the IEEE 1394b (FireWire 800) cable. With the USB cable, charging takes about 7 hours. With the AA battery holder, charging takes about 10 hours. An AA battery pack charges about 40% of the internal battery capacity.

Reference

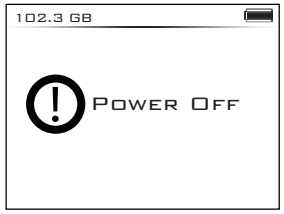
- You must turn off the NVSPRO+ in order to charge the unit.
- The NVSPRO+ can be charged via USB without using the AC power adapter included in the box. A high powered USB connection is needed, i.e. a USB connection with its own power supply, such as the USB port of a computer or a USB hub with a power unit.
- If the NVSPRO+ is operated with a notebook, you must always use the AC power adapter unit to charge the NVSPRO+. Notebooks may not deliver the necessary amount of current via USB
- The NVSPRO+ will operate for about two hours with a fully charged internal battery.
- When connected to a computer using IEEE 1394b (FireWire 800) or USB, the NVSPRO+ draws power from the computer, not the internal battery.
- If the NVSPRO+'s battery is completely discharged, the performance of the battery may be degraded. It is recommended that the NVSPRO+'s battery be recharged before the battery gauge reaches the empty level.
- See Chapter 8 for more information on the battery gauge.

8. NVSPRO+ Interface

1. Turning NVSPRO+ on/off

Press the power key on the right side of device for more than 2sec in order to switch NVSPRO+ on. The power up logo and firmware version is shown on the LCD.
When you see the logo on the LCD screen, release the button. Otherwise, the NVSPRO+ will automatically power down.

After checking the system, the NVSPRO+ goes into [XCopy ready] mode.
You can copy a memory card in this mode.



The NVSPRO+ turns off automatically after about 50 seconds if you do not use it.
When the (L) Off control option appears on the LCD, the NVSPRO+ can be powered off by pressing down on the control key or power key for more than 2 seconds.

Reference

• The NVSPRO+ can be reset via the recessed RESET key (see chapter 5 and chapter 22). This will also turn the power off.

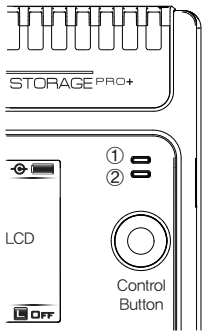
2. Key operation

The NVSPRO+ is operated by a single control key which can be used in five different ways. The display shows you the “S” (Short) or “L” (Long) symbol as a means to invoke the desired function.

Symbols	Operation
S	Press once and release immediately.
L	Press and hold the key for more than two seconds.
▲▼◄►	Push the key in the appropriate direction. Up/down/left/right movements are supported. Pushing and Holding the key in the up or down direction, results in repeated executions of the operation.

If the control key is not working: If the control key is malfunctioning, the menu sub-functions cannot be used. However, functions such as copy and verify can s ed through the power key. The user could thus rely on the power key—instead of the control key—to select the desired function from the menu.

3. The LED indicator



① Red indicates battery is being charged.
Green indicates “power on”.

② Blinking red indicates that a data transfer is occurring.

4. The LCD Display

① Remaining capacity of the internal hard disk.
If the capacity of the internal hard disk is uncertain, the display will be grayed out. A capacity check will be performed automatically during power on or power off. The capacity check can also be activated from the menu.
If an external hard drive is connected to the NVSPRO+, the capacity of external hard drive will be displayed next to the capacity of the internal hard drive.

② Remaining capacity of the rechargeable battery
The battery capacity is displayed four ways: (3→2→1→empty) by the battery gauge.

(Full): 80% ~ 100%
(2nd Gauge): 30% ~ 80%
(1st Gauge): 5% ~ 30%
(Empty): Under 5%

Reference

• Once the capacity counter has decreased, it will not increase until fully charged

③ Current status of the device.

④ Available functions for the current screen. The display varies depending on the function in use.

9. Formatting the Hard Drive

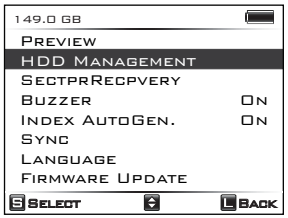
The hard disk in the NVSPRO+ should already be formatted with the"FAT32" file system. Only one (or the first) partition can be used.
Do not attempt to format the NVSPRO+ disk with a computer. Use only the format function on the NVSPRO+. This will allow the hard disk to be read by either the Windows or Mac operating systems.

Caution

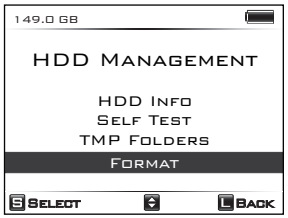
The NVSPRO+ can work only with one partition in the file format "FAT32". Therefore, NVSPRO+ offers users the function for formatting the hard disk in the"FAT32 file system ".

To Format a New Hard Disk

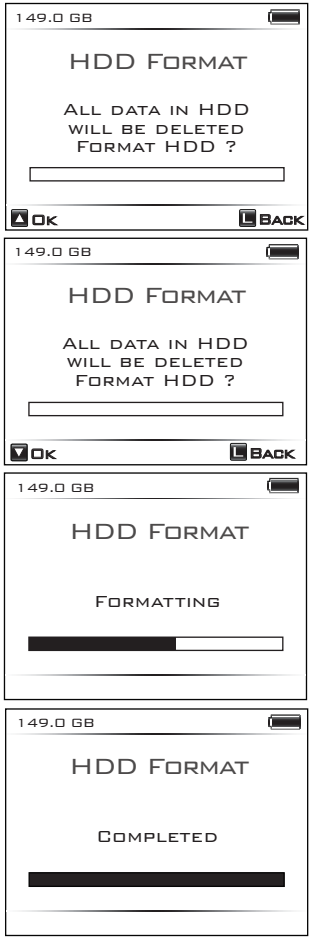
The NVSPRO+ must not be connected with a computer via USB or IEEE 1394b (FireWire 800). Remove any memory card or USB device.



To re-partition/format the hard disk, press the control key once at the [XCopy Ready] mode to get to the menu ("S-Menu"). Move the highlighted cursor to the [HDD Management] menu by pushing the control key downward. Press the control key once to select [HDD Management].



Move the highlighted cursor to the [Format] menu option with the control key.
Press the control key once to select [Format].



Confirm the selection by pushing the control key upward.
You can cancel the operation by pressing and holding the control key or power key.

Note: With Windows XP, hard disks and partitions are formatted (with a size of more than 32GB) only with the file system "NTFS"; the "FAT32" option is no longer available. For MAC OS, hard drives are formatted with the file system HFS+ (MAC OS Extended). These formats are incompatible with the NVSPRO+.

Then you can repartition and reformat the hard disk; to confirm, push the control key downward. All data on the hard disk will be lost!

You can cancel the operation by pressing and holding the control key or power key.

The NVSPRO+ indicates the progress of the formatting operation.

When the formatting is completed you are ready to copy data to the hard disk.

10. Using the NVSPRO+ as a Hard Drive

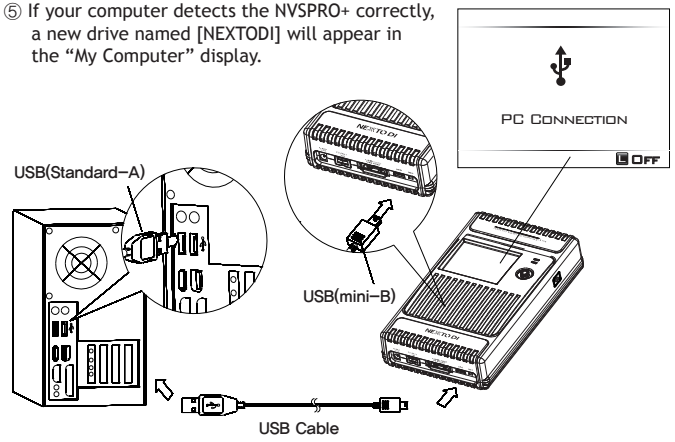
The NVSPRO+ can be connected to your computer for use as an external hard disk. Two connection methods are supported.

1. Connect to the computer's USB2.0 slot via the NVSPRO+ "USB slot" and the USB cable.
2. Connect to the computer's IEEE 1394b (Firewire 800) slot via the NVSPRO+ "IEEE 1394b (Firewire 800)slot" and the IEEE 1394b (Firewire 800) cable.

Device drivers for the NVSPRO+ are included in the Microsoft Windows 7, Vista, ME, XP and 2000 operating systems. Drivers for Windows 98 systems can be downloaded from the NextoDI website. To download drivers, go to
http://www.nextodi.com/support
http://www.nextodiusa.com/support.htm
When you have successfully connected the NVSPRO+ to your computer, the contents of the NVSPRO+ hard disk will appear in Windows File Explorer.

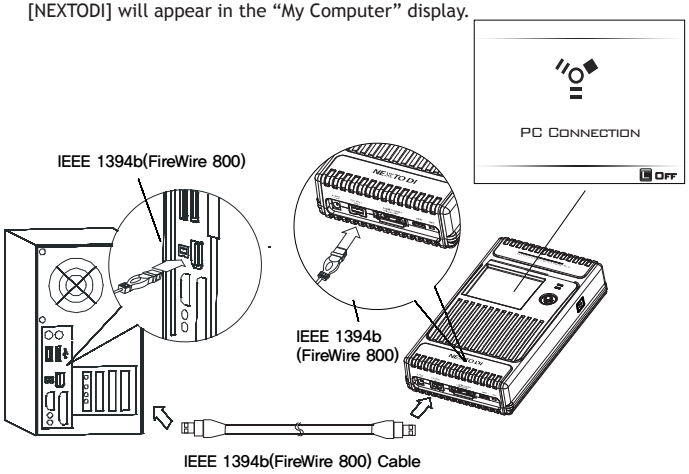
1. Connect via USB

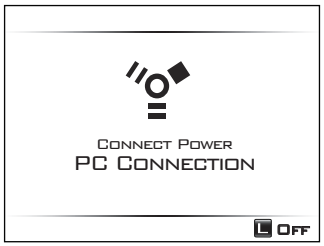
① Turn your computer on. Wait until the operating system is completely booted.
② Turn your NVSPRO+ on.
③ Connect the NVSPRO+ "USB" slot via the USB cable with a free USB2.0 port on your computer. A USB1.1 port can also be used.
④ Check the "PC Connection" on the NVSPRO+'s LCD display.
⑤ If your computer detects the NVSPRO+ correctly, a new drive named [NEXTODI] will appear in the "My Computer" display.



2. Connect via IEEE 1394b (Firewire 800)

① Turn your computer on. Wait until the operating system is completely booted.
② Turn your NVSPRO+ on.
③ Connect the NVSPRO+ "IEEE 1394b(Firewire 800)" slot via the IEEE 1394b (Firewire 800) cable with a free IEEE 1394b(Firewire 800) port on your computer.
④ Check the "PC Connection" on the NVSPRO+'s LCD display.
⑤ If your computer detects the NVSPRO+ correctly, a new drive named [NEXTODI] will appear in the "My Computer" display.

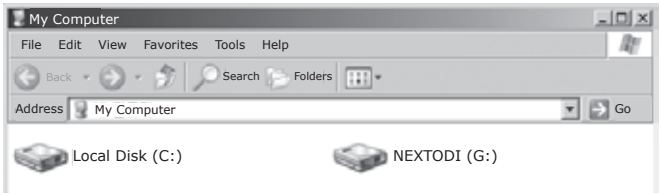


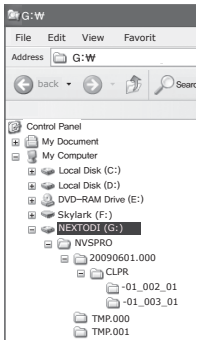


The 9pin–9pin IEEE 1394b(Firewire 800) cable does not provide power.
Use the AC power adapter unit or USB cable to provide power. If no power is provided, the NVSPRO+ shows the "Connect power" message and waits for external power to be applied.

3. Browsing the contents of your hard drive

If your computer detects the NVSPRO+ correctly, a new drive named [NEXTODI] will appear on 'My Computer'.





Back up data is stored in the "NVSPRO" folder. This folder is created automatically. The NVSPRO generates a new folder for each memory card copy. The name of the folder is determined by the shooting date.

For example, 20081112.000 means the last footage recorded on November 12, 2008. (If you copy multiple items on a single day, the last three digits will be changed to indicate the download sequence - "000, 001,002, 003, etc.) The date code comes from the video cameras. If the date setting on the video camera is incorrect, the folder name of NVSPRO will also be incorrect.

If a copying failure occurs, the copy is stored on your computer as a TMP folder. The TMP folder contains the same file names, but the data may be abnormal. You may delete the TMP folder.

4. Disconnecting the NVSPRO+ from Your Computer

For Windows
Right click the Storage device icon in the System Tray (lower right corner of your screen) and select "Safely Remove Hardware" or "Unplug" or "Eject Hardware". Then disconnect the cable from your NVSPRO+ and your computer.

For MAC
Drag and drop the NEXTODI icon to the trash. Then disconnect the cable from your NVSPRO+ and your computer.

11. Data Backup(Copy) and Verify

This chapter represents the 'Copy' and 'Verify' functions.

Insert a memory card into the corresponding memory slot. The slot for the Cardbus memory card (including P2/P2E cards) is located on the top side of the NVSPRO+. The slot for the SxS card is located on the left side of NVSPRO+.
The CF card must be used with a CF card adapter which is included in the NVSPRO+ box.
The Ikegami GFPAK flash memory device can be connected via the "eSATA-Host/ USB-Host" combo slot using the USB cable.

When copying from a memory card, the NVSPRO+ must not be connected to a computer. The NVSPRO can copy a memory card onto the internal hard disk via the built-in memory slot or via the "eSATA-Host/USB-Host" combo slot connector with a USB cable. After the backup, the copy procedure can be verified. The data on the memory card and the data on the hard disk are compared with one another. This ensures that the data has been copied properly ("Verify"). You can choose the "New Copy" or the "Verify" function according to whether the contents of the memory card have been copied before.

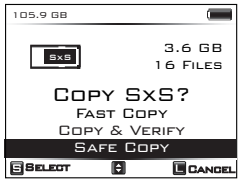
Do not connect more than one memory card or eSATAp/USB external HDD to the NVSPRO+. Only the first one connected will be detected.
- Insert the memory card carefully. The pin may get bent if you insert incorrectly.

1. Parsing the memory

The data on the memory card is compared with the data stored on the NVSPRO+ hard disk to determine whether it is new data or if the data or a portion of the data has already been stored on the NVSPRO+. According to the comparison result, the NVSPRO+ operates as follows:

2. Copy

(1) If the memory card contains new data.



The NVSPRO+ will make a new folder on the hard disk and copy all the files and folders in the memory card onto the internal hard disk. The contents of the memory card will not be deleted.

S : To Copy, press the control key briefly.

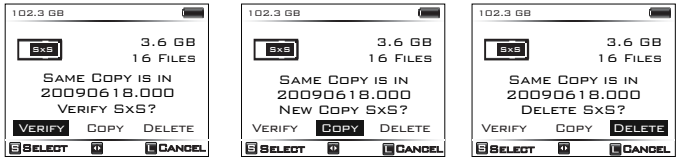
L : To Cancel the copy, press the control key for more than 2 seconds.

Three options are available for copy using up/down key selection.

Fast Copy	Make new folder and copy all the memory card data into the folder.
Verify&Copy	Same as [Fast Copy] but after copying, the data on the memory card is compared with the copied data in the NVSPRO+ hard drive. Each bit is verified.
Safe Copy	Before copying data, the NVSPRO+ verifies that its hard drive area is safe. If a bad sector is detected, a new, safe area is found – then copying [Fast Copy] will begin.

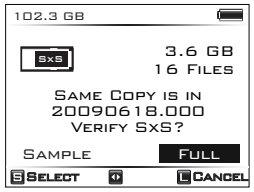
(2) Memory card with copied data

If the memory card was copied before and not modified since, then you can choose to [Verify] or [Copy] or [Delete].



Verify	Compare data stored in the hard drive to the data stored in the memory card.
Copy	Copy again. Make a new folder and copy all of the data in the memory card to the hard drive.
Delete	Delete the data on the memory card so that it can be reused.

3. Verify



When you choose the verify function, the NVSPRO+ compares the data stored on the hard drive to that on the memory card. The verification logic entails a full bit-by-bit verification, and detects any differences.

S : For verification, press the control key briefly

L : Another option: press the control key for more than 2 seconds. Select to make one more copy of this memory card.

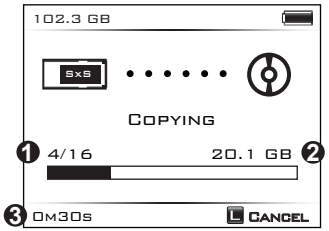
Two options are available for verification using left/right key selection.

Sample verify	Compare first 1MByte of each file.
Full verify	All the data is compared

4. Status

Current operation status is shown on the LCD display.

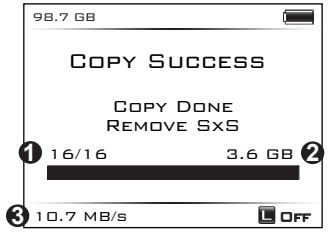
(1) Total number of files in the memory card versus the number of copied files.
(2) Amount of data copied.
(3) Elapsed time



5. Indication of Results

If the operation completes successfully, the user is notified with a beep sound and the lapsed time is displayed.

(1) Total number of files in the memory card versus the number of copied files.
(2) Amount of data copied.
(3) Copy speed in (MB/s)

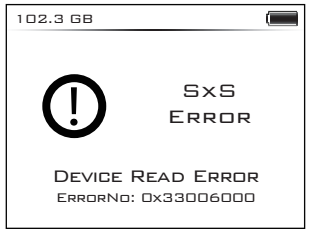


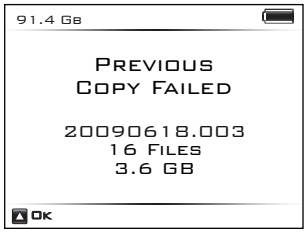
Reference

- Remove the memory card to return to the initial display.
- If you don't remove the memory card, the NVSPRO+ will automatically turn off within 50 seconds to preserve battery life.

6. Error Display

The NVSPRO+ displays the previous operational status at the next power up. The user will then know whether the last backup was successful.

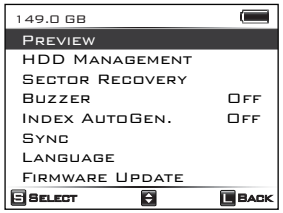




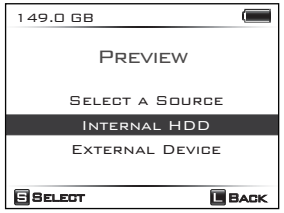
12. Video/Photo Preview

The NVSPRO+ shows stored video or photo files after backup depending on the file format. A preview of both the internal and external device (SxS/P2/CF/USB/ESATA) is supported. Users can also choose to delete the backup folders

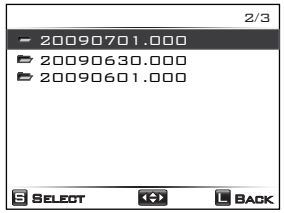
1. Preview from the internal hard drive



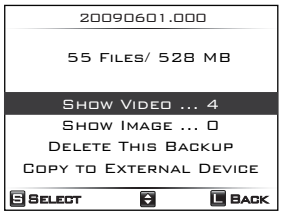
Press the control key once at the “XCopy Ready” mode to activate the menu.
Press the control key and select “Preview”.



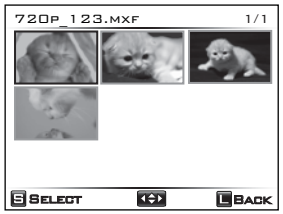
Select “INTERNAL HDD” to preview the video file stored in the internal hard drive.



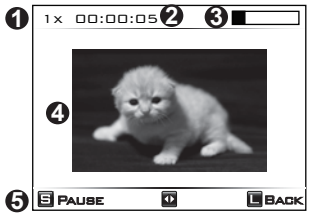
The NVSPRO+ will display the contents of the backup folder
in date order. The most recent folder is shown first. After you select a folder, the NVSPRO+ will display a brief list of the contents as shown in the figure below.



The user can select [Show Video] for video preview, [Show Image] for photo preview, [Delete] for deleting this backup, or [Copy] for copying to an external hard drive.



If “SHOW VIDEO” is selected, the NVSPRO+ will display the video files contained in that folder as thumbnails.
Unsupported video files are shown with an [X] mark. Video clips are selected for preview by using an up/down/left/right push of the control key. Press the control key briefly to select a clip.



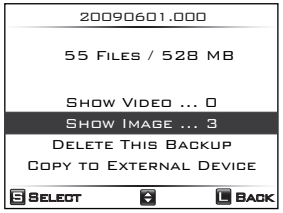
The NVSPRO+ will show a preview of the video file at reduced resolution. The user can select play/pause by pressing the control key. The user can also adjust the preview speed by pushing the control key to the left/right.

(1) Preview speed
(2) Elapsed time
(3) Progress of preview in %
(4) Preview video
(5) Selectable command

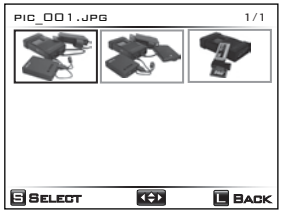
Reference

- See http://www.nextodi.com/manual for supporting preview format.
- The preview of the NVSPRO+ is a “best effort” preview. The preview speed differs depending on the video format.

2. Image Preview



Select [Show Image] at the preview menu. The number on the right is the number of image files.



The NVSPRO+ shows a list of image files contained in that folder as thumbnails--just like [Show Video].

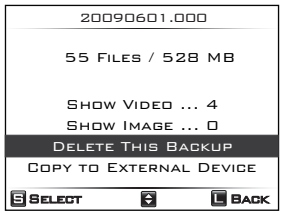
If you select an image, the NVSPRO+ shows the larger one. A user can control the “left/right” button to preview the next image or can short press the key([S]) to preview in slide show mode.

(1) File extension
(2) Size of Images
(3) Preview Images
(4) Selectable command

Reference

- See http://www.nextodi.com/manual for supporting preview format.

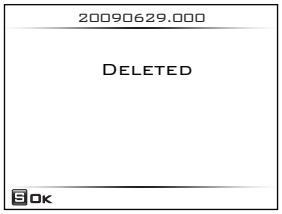
3. Delete the backup data



Select “Delete This Backup” from the Preview menu.

The NVSPRO+ will ask you twice to confirm the delete operation. (If you do not want to delete, press the button for more than 2 seconds to go back to the main menu.) Push the control key up and down to confirm the deletion.

The specific folder is deleted.
Return to the main menu by pressing the control key once.

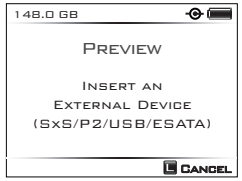


The specific folder is deleted.
Return to the main menu by pressing the control key once.

4. Preview from an external device

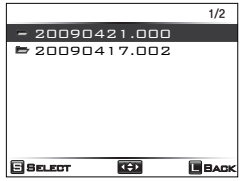
The NVSPRO+ supports the preview of video files stored on an eSATAp/USB external hard drive—as well as video files stored on memory cards such as: SxS, CardBus (including P2/P2E) and CF.

Select “External device” from the preview menu.



Then connect the external device to the NVSPRO+.

(1) If an SxS or CardBus memory card (including P2/P2E) contains video or image files—and is inserted into the NVSPRO+--information about the video or image files will be displayed.



(2) If an eSATAp or USB hard drive is connected, the NVSPRO+ will detect and analyze the backup folders. The NVSPRO+ will then display the backup folders as in the figure. The rest of operations are the same as previewing from the internal hard drive

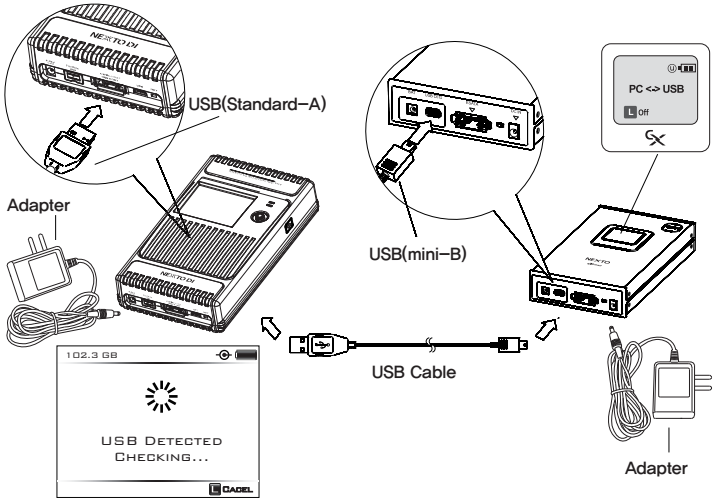
If you select “Back” by pressing and holding the control key, then a “remove (device type)” message will appear on the LCD display. Once the cable or memory card has been removed, you will automatically be returned to the main menu.

13. Using An External Hard Drive

The NVSPRO+ allows a user to copy a memory card to both the NVSPRO+ hard drive and to an eSATAp/USB external hard drive at the same time, making two copies of data in a single operation. The NVSPRO+ provides “Multi-copy” and “Sync” functions to make backup more reliable.

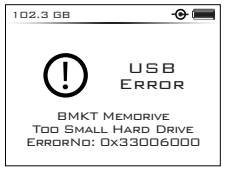
1. Connecting an external USB hard drive

Connect an external USB hard drive using the supplied USB mini-B cable during “XCopy ready” mode. Connect the larger plug to the eSATAp/USB combo port of the NVSPRO+. The NVSPRO+ will detect the device and check the external hard drive.



Reference

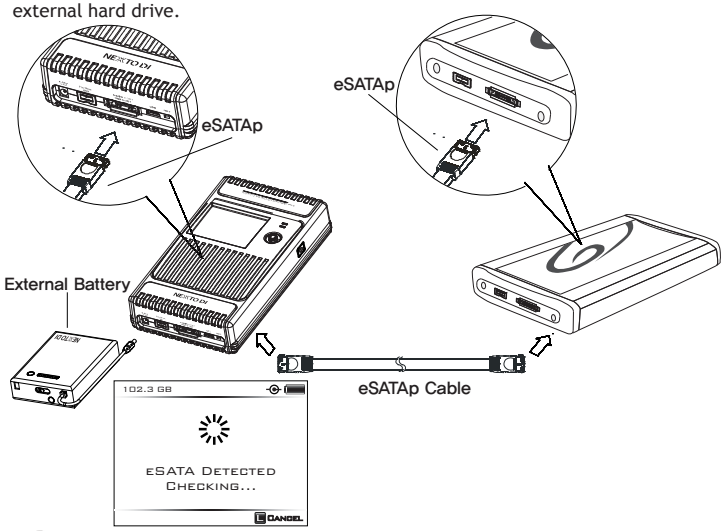
- The capacity of the USB external hard drive should be larger than 100GB.
- Connect both the NVSPRO+ and the USB external hard drive to their AC power adapters. If the NVSPRO+ is used to copy to another NEXTO backup device (via the USB adapter cable) the NVSPRO+ will not need to be connected to the AC power adapter. (Other Nexto backup devices include the NextoDI eXtreme ND2700, the Nexto Video Storage ND2725, etc.)



If the drive capacity is smaller than 100GB, the NVSPRO+ shows “USB ERROR” and powers off automatically. Use a larger hard drive for the external hard drive.

2. Connecting an external eSATAp hard drive

Connect the external eSATAp hard drive using the supplied eSATAp (Power over eSATA) cable during “XCopy ready” mode. Connect the cable to the eSATAp/USB combo port of the NVSPRO+. The NVSPRO+ will detect the device and check the external hard drive.

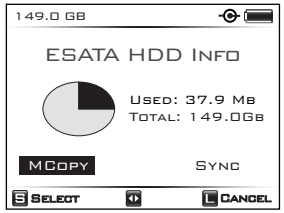


Reference

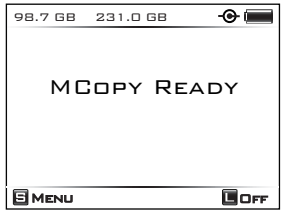
- The capacity of the eSATAp hard drive should be larger than 100GB.
- The NVSPRO+ only supports the eSATAp (Power over eSATA) hard drive which delivers the eSATA signal and power through a single cable.

14. Making Two Copies In A Single Backup(Multi-Copy)

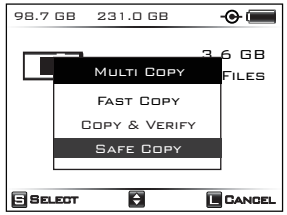
Copying a memory card to both the internal hard drive and an external eSATAp/ USB hard drive at the same time makes two copies of data in a single operation. The “Multi-copy” function of the NVSPRO+ makes backup more reliable.



If the proper external hard drive is connected, the NVSPRO+ shows information about the drive. Quickly [S] press the key or wait 10 seconds-- the NVSPRO+ will automatically go into the “Multi-Copy” mode. (If the external eSATAp/ USB hard drive connects before the power is on, the NVSPRO+ will go directly into “Multi-Copy” mode)



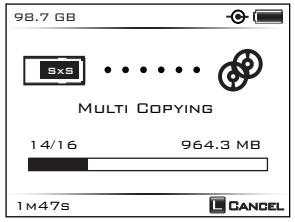
The remaining operation is the same as the “XCopy ready” mode. This mode can be exited by holding and pressing the key or by removing the eSATAp/USB cable from the NVSPRO+.



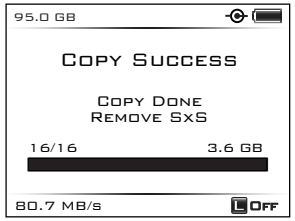
Insert the memory card when you are in the “MCopy ready” mode. The NVSPRO+ detects/ parses the contents of the memory card and asks you to confirm the mode of copy. Three options are available as in the normal XCopy mode. For details, see chapter 11.

S : Copy: briefly press the key.

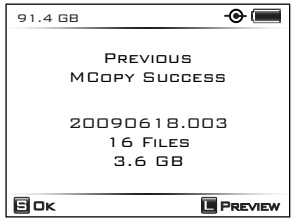
L : Cancel the copy: press and hold the key for more than 2 seconds.



When Multi-Copy is in progress, do not remove the memory card or disconnect the USB external hard drive.



Multi-Copy completed.
Remove the memory card to return to the initial display. If you do not remove the memory card within 50 seconds, the NVSPRO+ will automatically turn off in order to preserve battery life. See chapter 10 for the location and name of the backup folders.

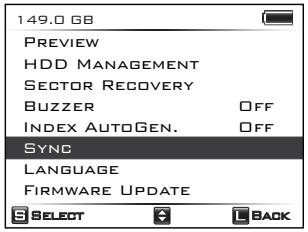


The NVSPRO+ displays the previous backup status during the next power on.

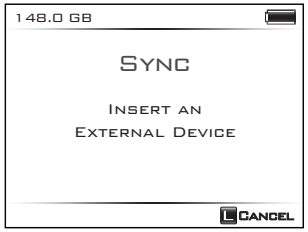
15. Making A Secondary Copy (Sync)

The “Sync” function synchronizes data between the [NVSPRO] folder of the NVSPRO+ and the [NEXTO] folder of an external eSATAp/USB hard drive connected on the “eSATA/USB Host” connector via eSATAp or USB cable. This function compares the folders stored in the [NVSPRO] folder of the NVSPRO+ and the [NEXTO] folder of an external hard drive. A new folder will be copied to the external hard drive only if a folder is in the [NVSPRO] folder of the NVSPRO+—but not in [NEXTO] folder of an external hard drive.

(1) Selecting “SYNC” from the menu

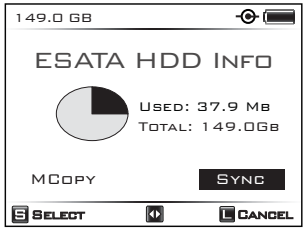


Move to “SYNC” on the main menu and select it.



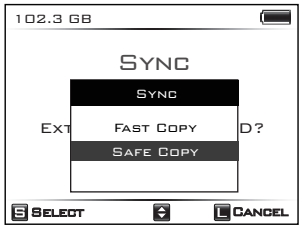
Connect the eSATAp/USB external hard drive to the [eSATA-Host/USB-Host] combo port of the NVSPRO+ as shown in chapter 13.

(2) Connecting the eSATAp/USB hard drive during “XCopy ready” mode



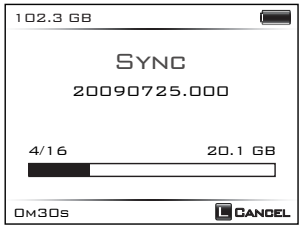
If a proper external hard drive is connected, the NVSPRO+ will display the status of that drive. Press the control key button to the left to highlight “Sync” and briefly press the key to select “Sync”.

(3) Sync function

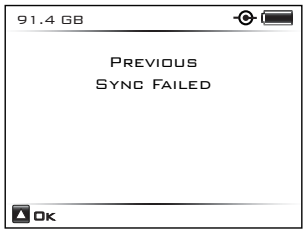


A user can select two modes of duplication, fast copy or safe copy. Highlight the desired mode using the up/down key, then briefly press to select the mode. Press and hold the key [L] to cancel the operation and go back to the main menu.

Fast Copy	Duplicates new folder to external hard drive
Safe Copy	Before duplication, the NVSPRO+ verifies that the copy area of the external hard drive is safe. If the copy area is not safe, the NVSPRO+ will automatically search for a new safe area and copy to that area.



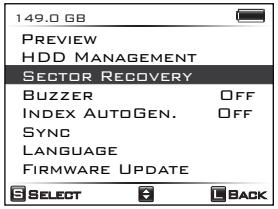
The NVSPRO+ compares the [NVSPRO] folder of the internal hard drive and the [NEXTO] folder of the external hard drive. If there is data in the [NVSPRO] but not in the [NEXTO] folder, then the NVSPRO+ copies those folders from the internal hard drive to the [NEXTO] folder of the external hard drive. The end result is that the two folders—on both the NVSPRO+ and the external hard drive—contain the same information



If an error occurs during the “Sync” function, the NVSPRO+ will automatically shut down and display an error message at the next power up-- as shown in the figure. Press the control key upwards to go back to the main menu.

16. Bad Sector Recovery

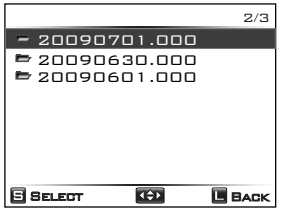
The NVSPRO+ features a bad sector recovery function. If an offloaded video file contains bad sector(s), those areas are filled with dummy files, so that the front/back frames are usable for editing/playing on an NLE system.



Briefly press [S] SECTOR RECOVERY under the Main MENU.

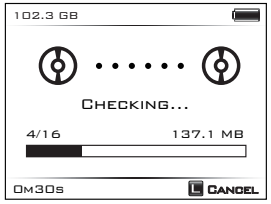
SECTOR RECOVERY
1. CHECK BAD SECTORS IN SELECTED FOLDER
2. IF FOUND, DUPLICATE FOLDER TO SAFE AREA
3. THE DATA IN BAD AREA IS LOST
OK

A description of the recovery function appears on the screen. Briefly press the control key [S] to move to the next screen

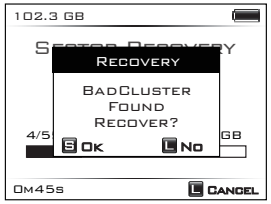


The next screen displays all data as folders in ascending order from the most recent date or from a large extension number if folder dates are the same. Select a folder and briefly press the control key [S] to move to the next screen

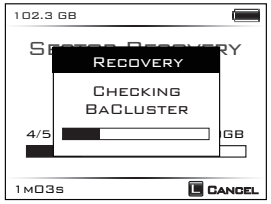
The next screen displays information about the selected folder. You can delete a folder—or preview the folder if it contains a video file. Select SECTOR RECOVERY and briefly press the control key [S] to move to the next step.



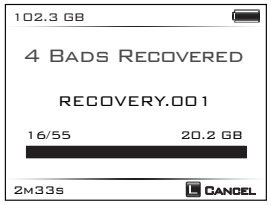
The NVSPRO+ will begin scanning to see if there are any bad sectors inside of the folder.



If a bad sector is found, a popup window will appear. Briefly press the control key to begin the recovery.



The data will be copied to a safe area on the internal hard drive—while the faulty sectors are being filled with dummy files.



This final screen displays the total number of bad sectors found and a folder name that has been created during the recovery process. You should now connect your NVSPRO+ to a computer and check the recovered folder.

Reference

- The "Bad Sector Recovery" feature is supported with previewable video codec only.
- See http://www.nextodi.com/manual for a list of supported preview formats.

17. Advanced Functions

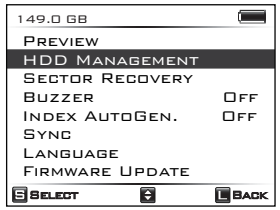
NVSPRO+ has several advanced function menus, accessible from the Main Menu.

Menu	Operation
Capacity Check	Checks the used capacity and the remaining recordable capacity on the NVSPRO+ hard drive.
Self Test	Built-in test utility for detecting physical errors on the internal hard drive. This function does not fix errors. If an error is detected during the self-test, consult your authorized NEXTODI dealer.
Delete TMP folder	If the copy function fails, a TMP folder will be generated. A user can delete the TMP folder using this menu.
Buzzer	On/Off setting for buzzer sound. Factory setting is On.
Language Selection	Change the language setting.
Firmware Upgrade	Upgrade to new firmware with the firmware file stored in the internal hard drive or on a memory card.

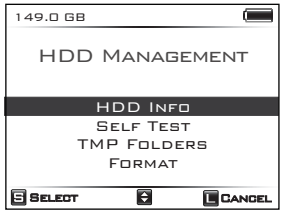
Enter Main Menu

Press the control key briefly [S] in order to get to the main menu.

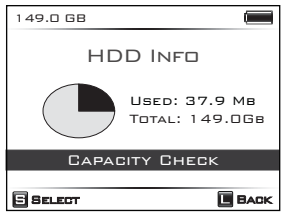
1. Capacity Check



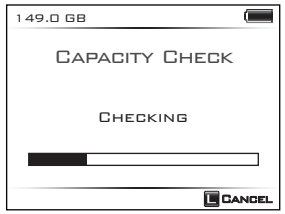
Select “HDD Management” from the main menu.



Select “HDD Info” submenu from the “HDD Management” menu.



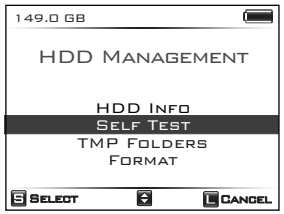
The NVSPRO+ will show the capacity status of the internal hard drive using a pie diagram.



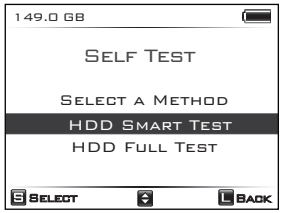
Select OK by pressing the control key briefly [S].
The capacity check will then begin.

2. Self Test

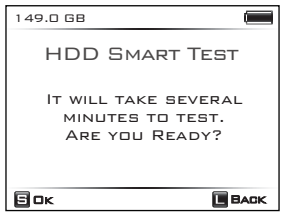
(1) Quick test



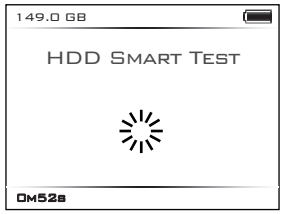
Select “Self test” submenu from the “HDD Management” menu



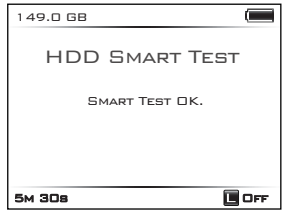
The User can choose between a quick test or a full test. Choose the quick test. The quick test uses a S.M.A.R.T test provided by the hard drive.



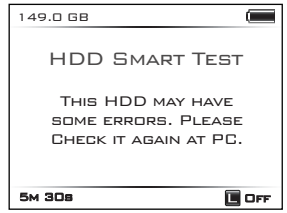
The quick test takes several minutes to test the internal hard drive. Pressing the control key initiates the quick test.



The display tells the user that the S.M.A.R.T test is in progress. This process takes several minutes



No problems found during the quick test.



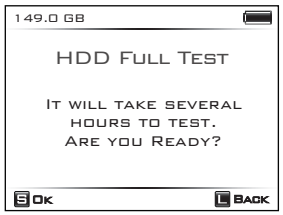
Error found during quick test. Further use of NVSPRO+ may result in loss of backup data. Consult your authorized NEXTODI dealer for service.

Caution

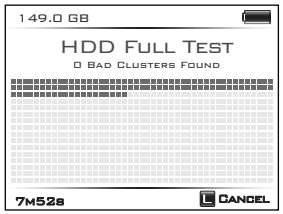
- The NVSPRO+ buzzer indicates the completion of the test. The power does not turn off automatically at completion of the test.
- The NVSPRO+ returns to the initial mode only after the user presses the control key for more than 2 seconds.
- It is strongly recommended that the AC adapter be used during this test in order to prevent battery failure during the process.

(2) Full test

Select “FULL TEST” from the self test menu.



The full test will take several hours. It will read all the sectors in the internal hard drive to discover if any bad sectors exist.



Full test in progress. This process will take about 2~3 hours.
The user can cancel the full test by pressing the control key for more than 2 seconds.

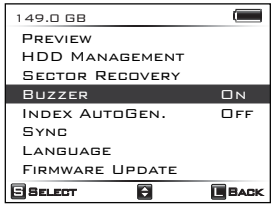
No errors found.

Error found during full test. Further use of NVSPRO+ may result in the loss of backup data. Consult your authorized NEXTODI dealer for service.

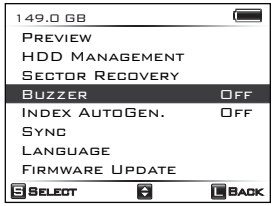
Caution

- The NVSPRO+ indicates the completion of the test using the buzzer sound. The power does not turn off automatically at the completion of the test.
- The NVSPRO+ returns to the initial mode only after the user pushes the control key for more than 2 seconds.
- It is strongly recommended that the AC adapter be connected for this test in order to prevent battery failure during the process.

3. Buzzer

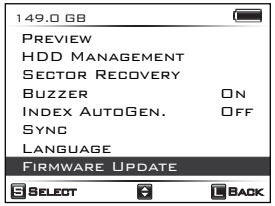


The Buzzer is on. Select “BUZZER “from the main menu to turn the buzzer sound on/off with by briefly pressing the control key. The factory default setting is buzzer on.

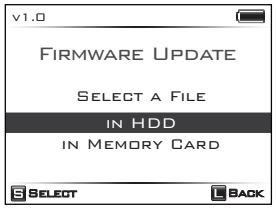


The Buzzer is now off. If the control key is briefly pressed, the buzzer setting will go to “buzzer on.”

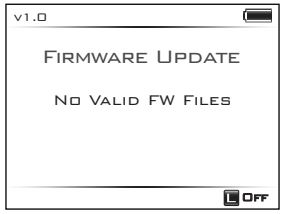
4. Firmware Update



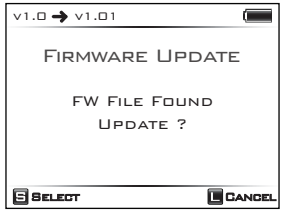
Select “FIRMWARE UPDATE” from the main menu.



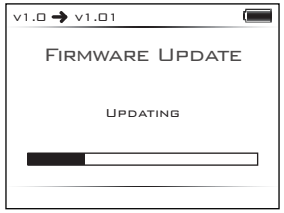
The firmware file (NVSPRO.BIN) should be placed in the root directory of a memory card or the internal hard drive. Select [In HDD] (hard disk drive) if the firmware file is to be placed in the root directory of the internal hard drive.
Select [In Memory Card] if the firmware is in the root directory of the memory card. If you selected the memory card, insert the memory card into the NVSPRO+.



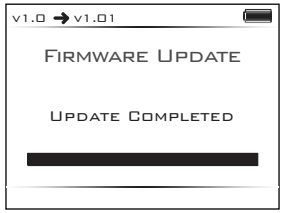
If a valid firmware file is not contained in the specified device, the NVSPRO+ indicates an error. Check whether the device contains valid firmware in the root directory and repeat the previous process.



If valid firmware is found at the specified location, the NVSPRO+ indicates a “FW File Found” message on the LCD. Confirm the firmware upgrade by pressing the control key briefly [S].

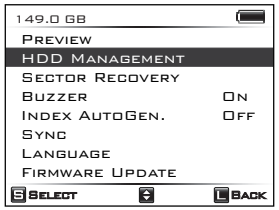


The LCD screen indicates that the NVSPRO+ firmware is being updated. Do not turn the power off during the firmware upgrade.
Use of the AC power adapter is recommended.

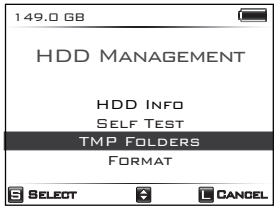


Firmware upgrade completed. The NVSPRO+ turns off automatically.

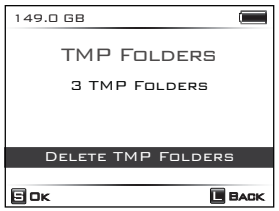
5. Delete TMP folder



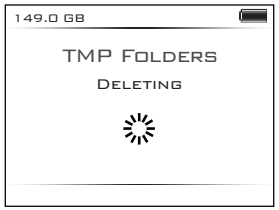
Select “HDD Management” from the main menu.



Select the “TMP folders” submenu from the “HDD Management” menu.

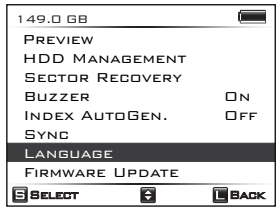


If the TMP folder exists inside the [NVSPRO] folder, then the number of TMP folders will appear on the LCD.
Press the control key briefly [S] to delete the TMP folders.



The LCD screen displays the message “Deleting the TMP Folders.”

6. Language setting



The user can select the preferred language using this function.

Select “Language” submenu from the main menu.

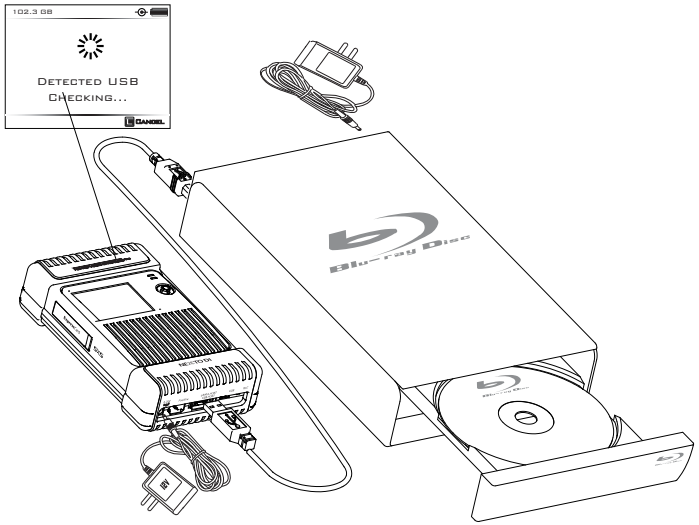
Select the desired Language using the up/down/left/right key function. Press the key briefly to set the language as the default.

18. Burning a Blu-ray Disc

A user can connect a USB Blu-ray drive to the NVSPRO+ through an eSATA/USB host port. The NVSPRO+ supports the burning of Blu-Ray Discs--or the preview of Blu-ray Discs-- without the use of a computer. Only the BD-R or BD-RE is supported. There is no support for burning a CD or DVD.

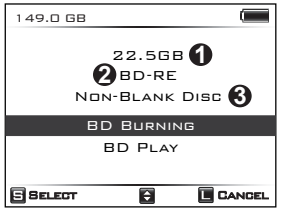
1. Connecting the USB Blu-ray Drive

Connect the USB Blu-ray drive to the [eSATA-Host/USB-Host] combo port of the NVSPRO+ as shown below. The NVSPRO+ detects the drive and displays information.



If a Blu-ray drive is properly connected, the NVSPRO+ will detect it and display the information as shown in the figure. Press the control key briefly [S] to go to the next step.

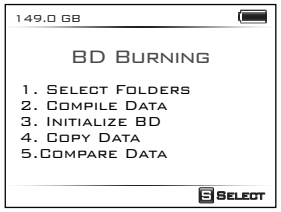
2. Burning the Blu-ray Disc



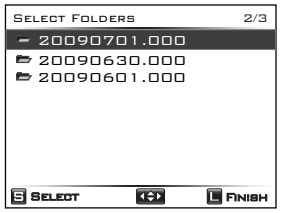
① Capacity of the Blu-ray Disc
② Type of discs
- BD-R (record once)
- BD-RE (rewritable)

③ Disc status

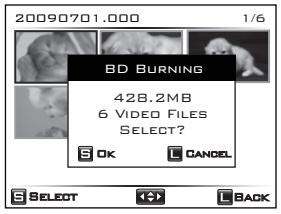
	BD-R	BD-RE
BLANK DISC	Recordable	Recordable
NON-BLANK DISC	Non-recordable	Recordable



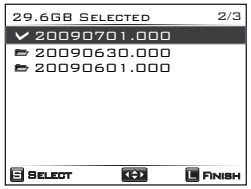
If you select “Burning BD,” the NVSPRO+ will show you the burning process. Press the control key briefly [S] to begin the procedure.



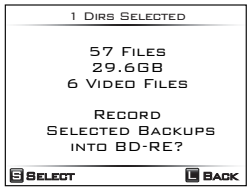
First, select backup folders that you wish to transfer.
By using the up/down function on the control key, highlight the folder that you want to archive. Press briefly to select the folder.



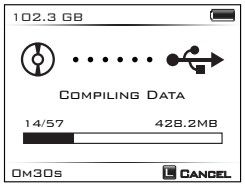
The NVSPRO+ shows you the video clip stored in the backup folder, then asks if you wish to select it. Press the control key briefly to select the folder for burning --or press the key more than two seconds to unselect the folder.



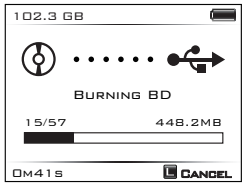
The selected folder will be highlighted and a check mark will be shown at the head of folder name. A user can select multiple folders at this stage, but the total capacity of selected folder(s) should not exceed the capacity of the Blu-ray Disc.
Press the key more than two seconds to initiate burning.



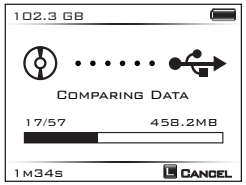
Confirm selection.



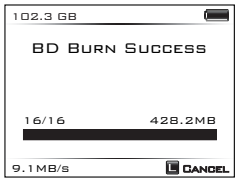
It will take the Blu-ray Disc about 20 minutes to prepare for burning.



The progress of the Blu-ray disc burning is shown.

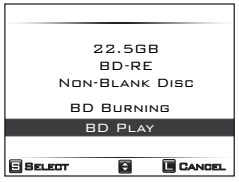


After burning the Blu-ray Disc, the NVSPRO+ will verify the data in both the Disc and the hard drive.

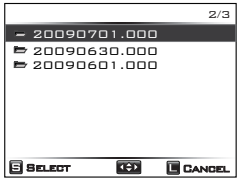


The LCD screen on the NVSPRO+ shows the completion of the Disc burning. The USB cable can now be removed

3. Play the Blu-ray Disc

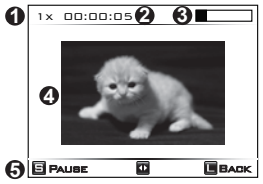


Connect the external USB Blu-ray drive, then select “Preview BD” to preview the video in the Blu-ray Disc.



The NVSPRO+ shows the list of backup folders.

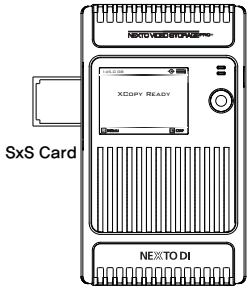
The NVSPRO+ shows a list of video files contained in the selected folder as thumbnails. Unsupported video files are shown with an [X] mark. Select a video clip for preview using the up/down/left/right function of the control key.



Press the control key once to select a clip. The NVSPRO+ shows a preview of that video file with reduced resolution. The user can select play/pause with a press of the control key. The user can also control the preview speed using a left/right push of the control key.
(1) Preview speed
(2) Elapsed time
(3) Progress of preview in %
(4) Preview video
(5) Selectable command

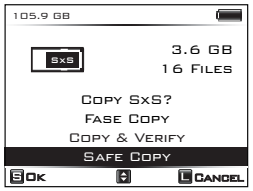
19. Examples of Basic Functions

1. Copying from an SxS card

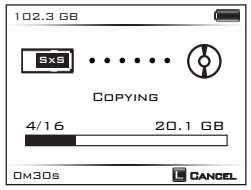


(1) Turn on the NVSPRO+ by pressing the power button for more than 2 seconds. Wait for the "XCopy ready "mode, then insert an SxS card into the ExpressCard slot located on the left side of the device.

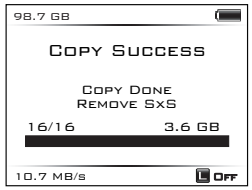
(2) The NVSPRO+ detects the memory card and analyzes it.



(3) The result of the backup analysis is shown on the LCD. The total number of files-- in addition to the data capacity of the SxS card -- is shown on the LCD. The NVSPRO+ will wait for the completion of the backup analysis before starting to copy.



(4) The copy status is shown on the LCD.

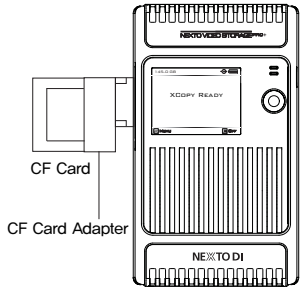


(5) If the copy is successfully completed, the result will be shown on the LCD. Remove the SxS card to return to the initial "XCopy ready"mode.

2. Copying a Cardbus memory card (including P2/P2E cards)

The Memory card slot for a CardBus-type memory card (including P2/P2E) is located on the top of the NVSPRO+. Insert the CardBus memory card into the slot. The remaining procedure is the same as for SxS memory cards.

3. Copying a CF card



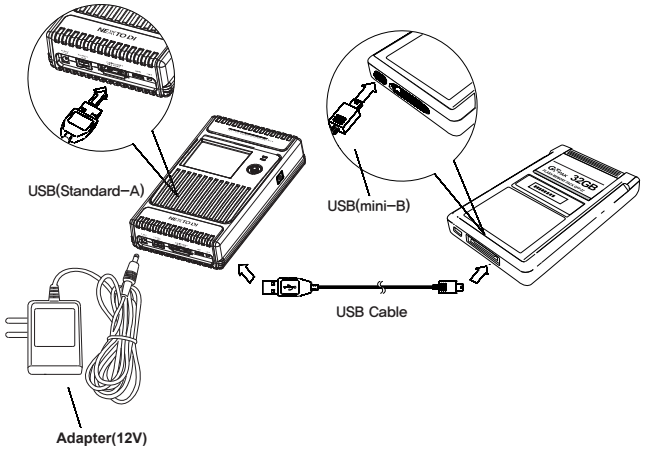
Copying a CF card is the same as copying an SxS card--except that the CF card requires the CF card adapter which is delivered with the NVSPRO+.

First, connect the CF card to the CF card adapter, then insert the card into the Express Card slot of the NVSPRO+.

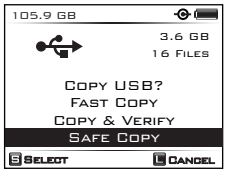
The NVSPRO+ will display an error message if an empty CF card adapter is inserted.

4. Copying from an IKEGAMI GFPAK

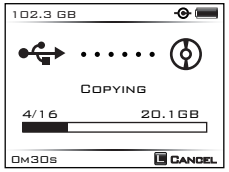
The NVSPRO+ supports copying from the IKEGAMI GFPAK using the “eSATA/ USB-Host” combo slot connected via the USB cable.



When copying from a GFPAK, the NVSPRO+ should be powered by the AC power adapter. The detailed connection is shown above.



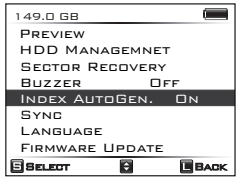
If the GFPAK is connected correctly, the NVSPRO+ will automatically detect and check it.



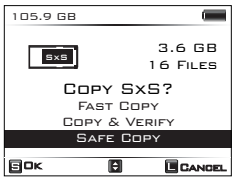
Copying a GFPAK: After copying, remove the USB cable connected to the GFPAK.

20. Auto-Generation of Index Files

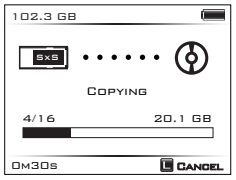
The NVSPRO+ automatically generates HTML index files which contain metadata and thumbnails of each video file.



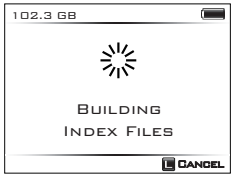
This function can be turned on or off from the main menu.



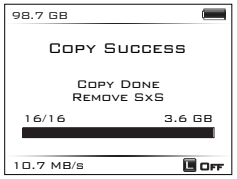
If a memory card with new data is inserted, the NVSPRO+ asks you to begin copying.



This screen indicates that the NVSPRO+ is copying the memory card data to the internal hard drive.

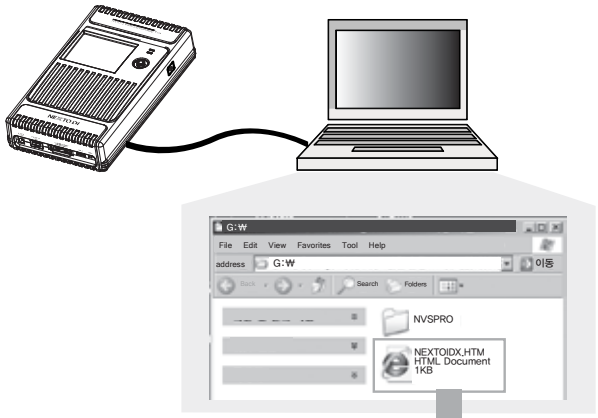


After copying, the NVSPRO+ generates an index file that displays thumbnails of the video footage.

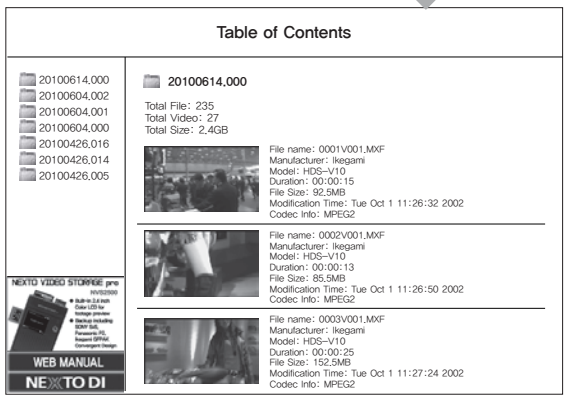


Backup and index generation has successfully completed.

This index file is in HTML format and can be accessed via a computer using the web browser. The HTML file (NEXTOIDX.HTM) is stored in the root directory of the NVSPRO+. To access a video file, simply connect the NVSPRO+ to a computer and double-click on the NEXTOIDX.HTM file in the root directory.



NEXTOIDX.HTM

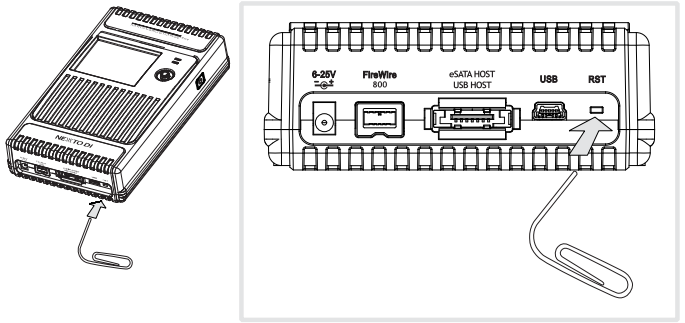


21. Troubleshooting Tips

IF THE POWER ON THE NVSPRO+ CANNOT BE TURNED OFF VIA THE ON/OFF BUTTON:

Press the RESET button using a toothpick or paper clip.

The RESET button will turn the power off safely so that the data stored in the hard drive will not be lost or altered.

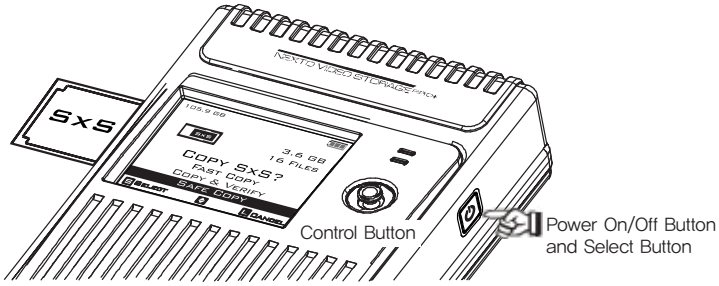


IF THE CONTROL KEY IS NOT RESPONDING:

If you are unable to select an operation that involves the pressing of the control key in an up/down/left/right direction, you can still perform the [COPY] or [VERIFY] functions of the NVSPRO+ by using the power (on/off) button.

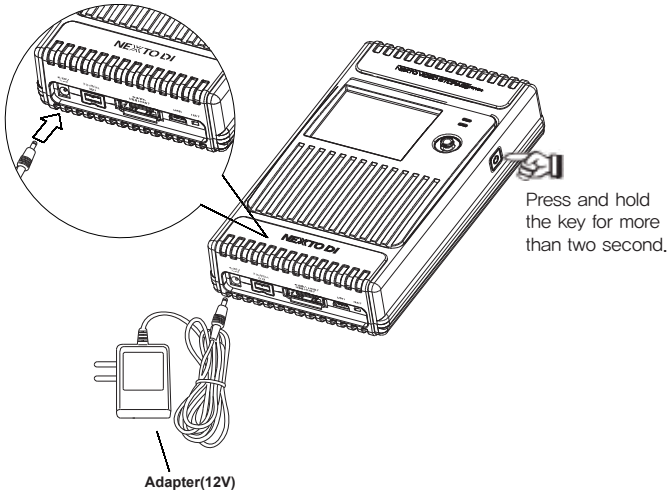
First, turn on your NVSPRO+ by pressing the power button for over two seconds. Next, place your memory card into the appropriate slot. When the LCD screen shows [SAFE COPY], briefly press the power button to begin copying. Please note that you will be initiating the “Safe Copy” function— which is slower, but is the most reliable method of backup.

When the copying is done, remove your memory card. Now re-insert the memory card and wait until your NVSPRO+ asks [VERIFY?] A brief press of the power button will begin the “Verify” process.



IF THE POWER CANNOT BE TURNED ON:

The NVSPRO+ has an internal rechargeable battery. If you cannot turn on the NVSPRO+ with the On/Off button, it may be that the internal battery has been discharged. Connect the power adapter to the NVSPRO+ and push the power button for more than 2 seconds to turn the NVSPRO+ on.



22. Battery Disposal

Batteries/rechargeable batteries containing harmful substances are marked with the following symbols: Cd=cadmium, Hg=mercury, Pb=lead. You can return batteries/rechargeable batteries free of charge to any authorized disposal station in your area, in our stores or in any other store where batteries/rechargeable batteries are sold. Do not dispose of used batteries in the household trash.

The Li-Poly rechargeable battery integrated into the NVSPRO+ must be removed from the housing prior to disposal. Please see your authorized NVSPRO+ dealer for this service.

FCC Rules and Regulations – Part 15

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. Modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment under FCC rules.

Technical Specifications

Device	NEXTO VIDEO STORAGE pro+	
Model Number	NVS2525	
LCD	2.4" Color TFT LCD: 320*240, 64K colors	
Card Slots	SxS	ExpressCard/34 Compatible, Follows SxS Spec.
	CardBus Memory Card	Supports CardBus Memory Card (including P2/P2E Card)
External Harddrive Support	eSATA: 3.0Gbit/sec USB 2.0: 480Mbit/sec	
Battery	Internal: 3.7V 4400mAH rechargeable Li-Poly battery (120 min) * Rechargeable by AC adapter, USB cable, IEEE1394b(FireWire800) cable (9-9pin), and Cigar Jack charger External : Battery holder for recharging Internal battery with four standard AA cell batteries (40 min)	
AC Power Adapter	Input: 100-240V AC Output: 12V/1A DC	
Bus Power Operation	Operate with USB bus power or IEEE1394b(FireWire800) cable power	
Computer Interface	USB 2.0 : 480Mbit/sec IEEE1394b(FireWire800) : 800 Mbit/sec	
File System Format	Internal hard drive : FAT32 Memory card (including SxS) : FAT12/16/32	
OS Compatibility	Windows VISTA/XP/2000/ME MAC OS 9.2 or above, Linux2.4.18 or above	
Dimensions	154mm * 91mm * 33mm (6.1inch * 3.6inch * 1.3inch)	
Weight	430g/15.1oz (with Hard drive)	
Contents	NVS2525 Main unit / Manual / AC power adapter / USB cable / IEEE1394b(FireWire800) cable (9-9pin) / Cigar Jack charger cable / AA battery holder / Shock protection rubber jacket /	

Plus 1 Pack

External Battery	3.7V 6600mAH rechargeable Li-Ion battery (120 min) * Rechargeable by AC adapter
Contents	Carrying bag / Leather Case / External Battery / CF Card adapter / External battery cable / eSATAp external hard drive/ eSATAp cable